LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116641.D
Acq On : 29 Aug 2019 3:18
Operator : HP/JU
Sample : K4093-03 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-02-082619

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.475	572	576	584	rBV	453734	388286	21.72%	1.463%
2	6.481	744	747	754	rBV	478625	431982	24.16%	1.627%
3	6.628	769	772	776	rBV	476505	420004	23.49%	1.582%
4	6.863	809	812	816	rBV	542163	448057	25.06%	1.688%
5	7.022	835	839	842	rBV	203601	157837	8.83%	0.595%
6	7.416	903	906	910	rBV	161638	123372	6.90%	0.465%
7	8.145	1026	1030	1033	rBV	528266	419865	23.48%	1.582%
8	9.216	1209	1212	1215	rBV	354074	269449	15.07%	1.015%
9	9.557	1267	1270	1272	rBV	68633	58510	3.27%	0.220%
10	9.898	1322	1328	1331	rBV	663640	510966	28.58%	1.925%
11	9.928	1331	1333	1337	rVB	99123	77845	4.35%	0.293%
12	10.098	1358	1362	1365	rVB	89882	75441	4.22%	0.284%
13	10.139	1365	1369	1372	rBV	60133	45110	2.52%	0.170%
14	10.216	1378	1382	1384	rBV	48516	45754	2.56%	0.172%
15	10.304	1393	1397	1399	rBV	32806	44245	2.47%	0.167%
16	10.439	1417	1420	1426	rBV	127178	126606	7.08%	0.477%
17	10.510	1426	1432	1434	rVV2	46441	62880	3.52%	0.237%
18	10.598	1444	1447	1452	rVB2	46163	55714	3.12%	0.210%
19	10.680	1456	1461	1465	rVB2	209440	193325	10.81%	0.728%
20	10.804	1477	1482	1489	rVB4	52885	74831	4.19%	0.282%
21	10.992	1509	1514	1516	rBV3	65695	81271	4.55%	0.306%
22	11.016	1516	1518	1522	rVV2	59217	63496	3.55%	0.239%
23	11.075	1525	1528	1530	rVB2	48965	45187	2.53%	0.170%
24	11.139	1537	1539	1543	rVV4	44050	48467	2.71%	0.183%
25	11.227	1551	1554	1557	rVV3	35507	47339	2.65%	0.178%
26	11.275	1560	1562	1568	rVB	72806	78231	4.38%	0.295%
27	11.380	1576	1580	1582	rBV	507623	466212	26.08%	1.756%
28	11.404	1582	1584	1587	rVV	922662	685433	38.34%	2.582%
29	11.451	1587	1592	1595	rVB	270671	257289	14.39%	0.969%
30	11.486	1595	1598	1602	rBV	47998	59876	3.35%	0.226%
31	11.710	1632	1636	1638	rBV2	66793	53759	3.01%	0.203%
32	11.880	1661	1665	1667	rBV	247461	211078	11.81%	0.795%
33	11.910	1667	1670	1673	rVB	327405	288496	16.14%	1.087%
34	11.957	1674	1678	1680	rBV	135075	125578	7.02%	0.473%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
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Acq On : 29 Aug 2019 3:18
Operator : HP/JU
Sample : K4093-03 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-02-082619

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.992	1680	1684	1686	rBV2	355920	361813	20.24%	1.363%
36	12.016	1686	1688	1693	rVB	187588	149570	8.37%	0.563%
37	12.174	1707	1715	1717	rBV	144098	156258	8.74%	0.589%
38	12.192	1717	1718	1722	rVB3	51031	43961	2.46%	0.166%
39	12.322	1738	1740	1743	rVB	78486	60984	3.41%	0.230%
40	12.357	1743	1746	1748	rBV	86982	80043	4.48%	0.302%
41	12.380	1748	1750	1752	rVB	70760	55468	3.10%	0.209%
42	12.427	1754	1758	1761	rBV	213028	227898	12.75%	0.858%
43	12.469	1761	1765	1770	rVB3	155286	280128	15.67%	1.055%
44	12.510	1770	1772	1778	rBV3	102477	144121	8.06%	0.543%
45	12.592	1782	1786	1789	rBV	1358559	1215486	67.98%	4.579%
46	12.745	1809	1812	1815	rBV2	39756	46287	2.59%	0.174%
47	12.822	1819	1825	1828	rBV	1392752	1504644	84.16%	5.668%
48	12.874	1830	1834	1838	rVB3	94110	130519	7.30%	0.492%
49	12.933	1838	1844	1846	rBV	99722	127427	7.13%	0.480%
50	12.957	1846	1848	1850	rBV	261655	190948	10.68%	0.719%
51	12.974	1850	1851	1855	rVB3	67563	60080	3.36%	0.226%
52	13.033	1856	1861	1864	rBV2	240689	339361	18.98%	1.278%
53	13.092	1868	1871	1873	rBV2	81397	90531	5.06%	0.341%
54	13.121	1873	1876	1877	rBV2	148706	141535	7.92%	0.533%
55	13.145	1877	1880	1883	rVB	453973	432180	24.17%	1.628%
56	13.210	1883	1891	1894	rBV	403545	422754	23.64%	1.593%
57	13.251	1894	1898	1900	rBV2	441850	457953	25.61%	1.725%
58	13.274	1900	1902	1905	rVB2	66025	57754	3.23%	0.218%
59	13.339	1910	1913	1916	rBV	328716	291604	16.31%	1.098%
60	13.369	1916	1918	1922	rVB	257247	241119	13.49%	0.908%
61	13.545	1945	1948	1950	rBV2	47931	50121	2.80%	0.189%
62	13.621	1958	1961	1962	rBV3	69489	61643	3.45%	0.232%
63	13.651	1963	1966	1970	rVB2	110148	167088	9.35%	0.629%
64	13.692	1970	1973	1975	rBV3	80328	104781	5.86%	0.395%
65	13.716	1975	1977	1980	rVB	81108	66495	3.72%	0.250%
66	13.763	1980	1985	1988	rBV3	161040	246582	13.79%	0.929%
67	13.792	1988	1990	1992	rVB	151505	103009	5.76%	0.388%
68	13.816	1992	1994	1997	rBV2	102579	99856	5.59%	0.376%
69	13.857	1998	2001	2006	rBV3	217239	273896	15.32%	1.032%
70	14.004	2022	2026	2030	rBV2	1284826	1787926	100.00%	6.735%
71	14.039	2030	2032	2040	rVB	1141609	1011783	56.59%	3.811%

LSC Area Percent Report

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Acq On : 29 Aug 2019 3:18
Operator : HP/JU
Sample : K4093-03 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-02-082619

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.098	2040	2042	2043	rBV2	100059	78505	4.39%	0.296%
73	14.121	2043	2046	2048	rVV	268836	244574	13.68%	0.921%
74	14.151	2049	2051	2053	rVV	114663	101884	5.70%	0.384%
75	14.198	2057	2059	2062	rVV3	106572	93027	5.20%	0.350%
76	14.227	2062	2064	2068	rVV2	97609	94877	5.31%	0.357%
77	14.268	2069	2071	2073	rBV2	69717	52044	2.91%	0.196%
78	14.363	2084	2087	2089	rBV	115352	113669	6.36%	0.428%
79	14.398	2089	2093	2095	rVV	361504	346355	19.37%	1.305%
80	14.427	2095	2098	2102	rVV	243010	270583	15.13%	1.019%
81	14.521	2111	2114	2116	rBV	199414	160762	8.99%	0.606%
82	14.545	2116	2118	2121	rVB2	168199	145144	8.12%	0.547%
83	14.592	2124	2126	2129	rVB	147978	131659	7.36%	0.496%
84	14.645	2133	2135	2141	rBV4	139987	241629	13.51%	0.910%
85	15.051	2200	2204	2213	rBV	845423	1770659	99.03%	6.670%
86	15.121	2214	2216	2219	rBV	106246	105690	5.91%	0.398%
87	15.157	2219	2222	2228	rBV	279106	338053	18.91%	1.273%
88	15.351	2251	2255	2261	rVB	487816	607644	33.99%	2.289%
89	15.415	2261	2266	2269	rVV	666402	809475	45.27%	3.049%
90	15.439	2269	2270	2272	rVV2	165644	168690	9.43%	0.635%
91	15.474	2272	2276	2279	rVV	537925	826743	46.24%	3.114%
92	15.504	2279	2281	2288	rVB2	334222	410032	22.93%	1.545%
93	15.633	2301	2303	2308	rVB5	112670	116687	6.53%	0.440%
94	15.686	2308	2312	2314	rBV4	193499	386867	21.64%	1.457%
95	15.892	2345	2347	2351	rBV4	82851	78693	4.40%	0.296%
96	15.951	2354	2357	2362	rBV4	216176	436713	24.43%	1.645%
97	16.362	2426	2427	2431	rVB4	93220	81761	4.57%	0.308%
98	16.421	2435	2437	2441	rBV3	130918	132338	7.40%	0.499%
99	16.933	2519	2524	2532	rVB2	125811	253748	14.19%	0.956%
100	17.368	2594	2598	2603	rVB2	73427	122299	6.84%	0.461%

Sum of corrected areas: 26546201

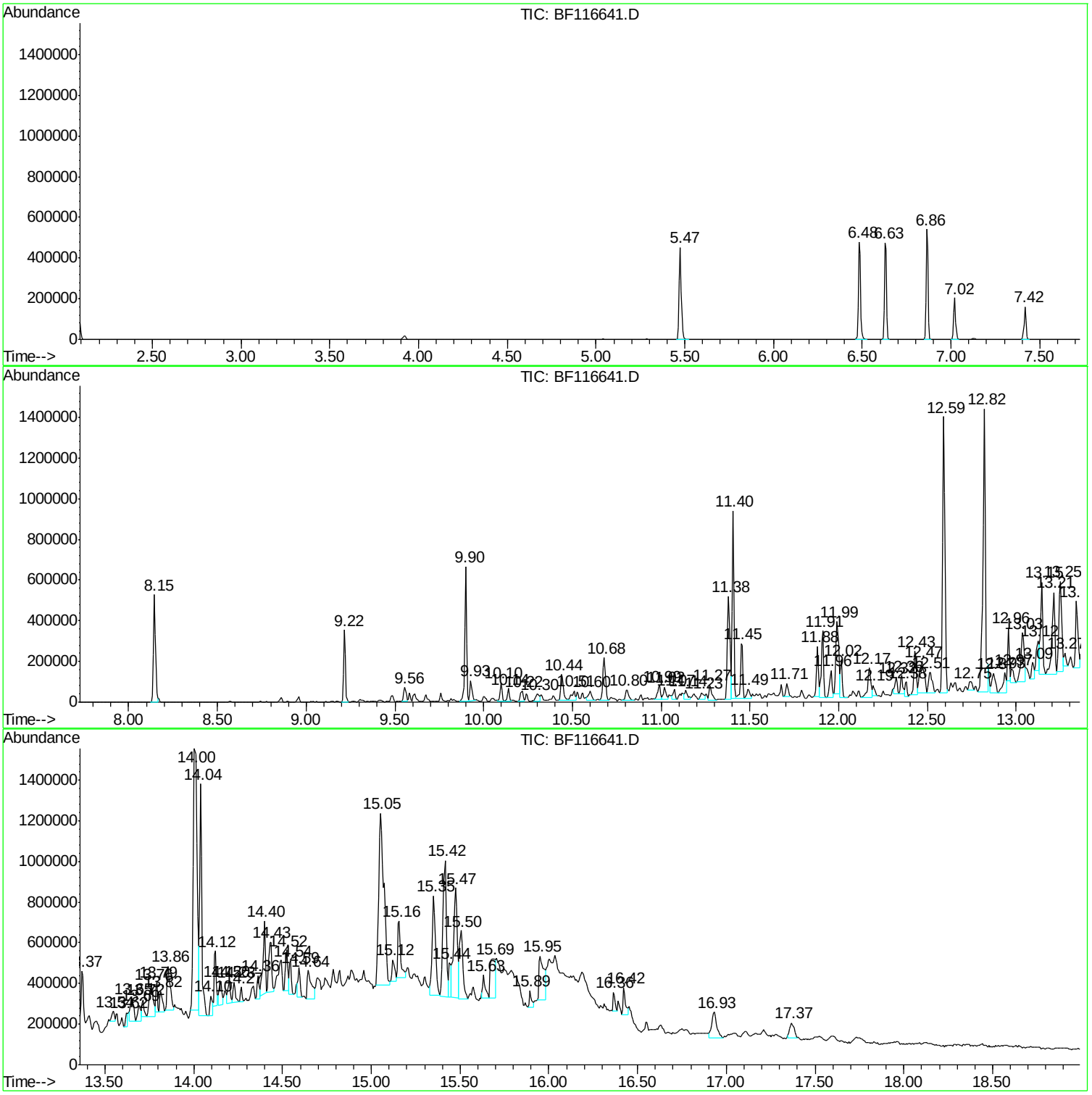
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116641.D
Acq On : 29 Aug 2019 3:18
Operator : HP/JU
Sample : K4093-03 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116641.D
Acq On : 29 Aug 2019 3:18
Operator : HP/JU
Sample : K4093-03 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

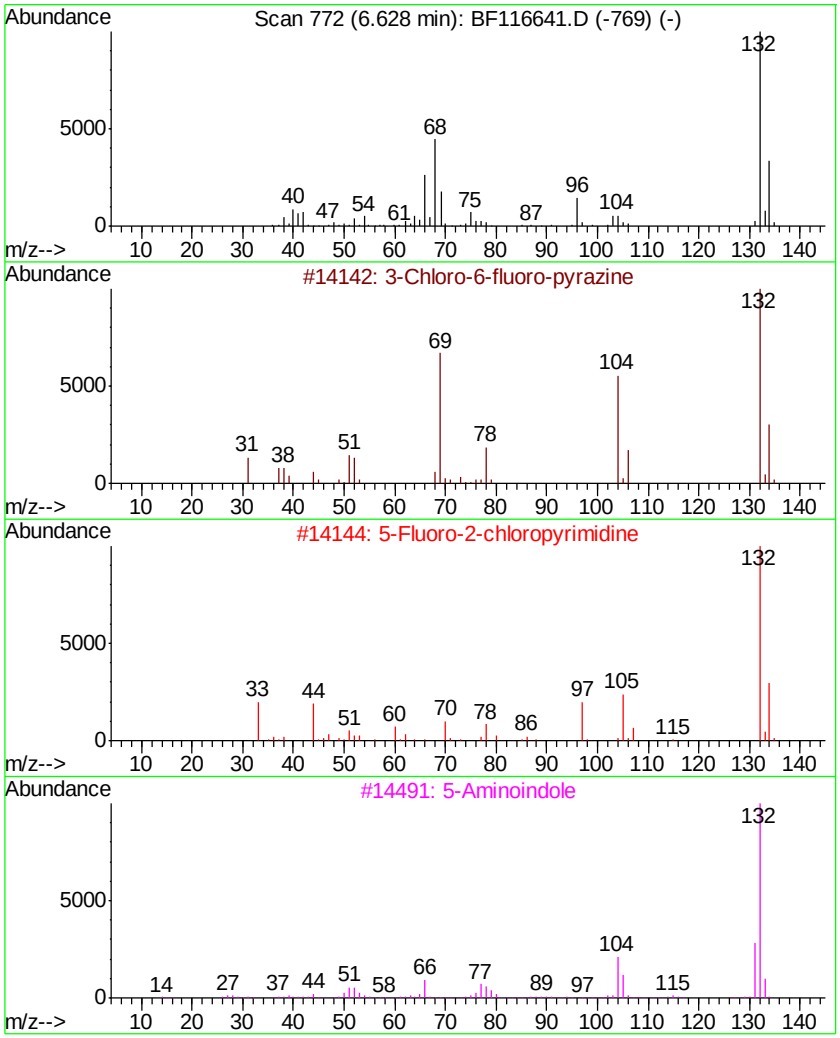
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

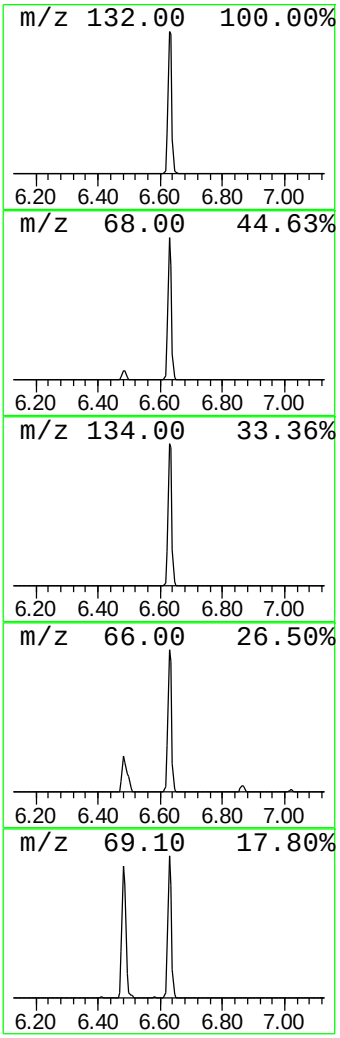
****

Peak Number 1 unknown6.63 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.63	18.75 ng	420004	1,4-Dichlorobenzene-d4	6.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
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Instrument : BNA_F
ClientSampleId : PL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

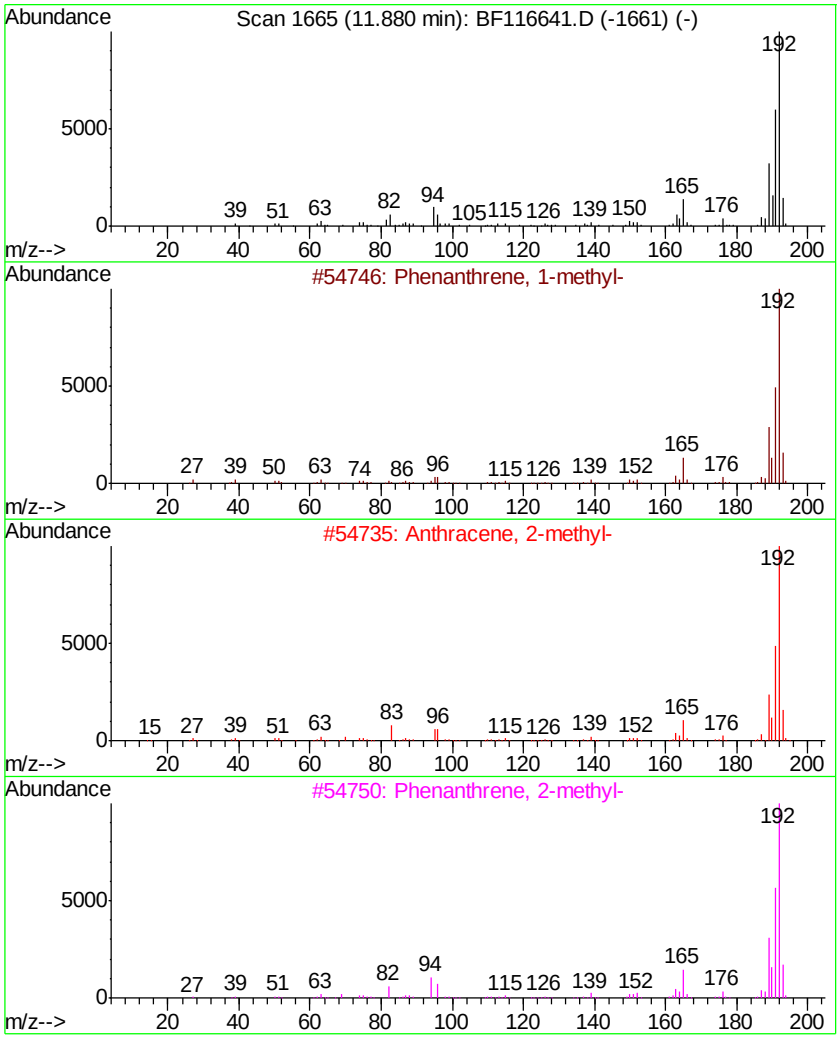
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

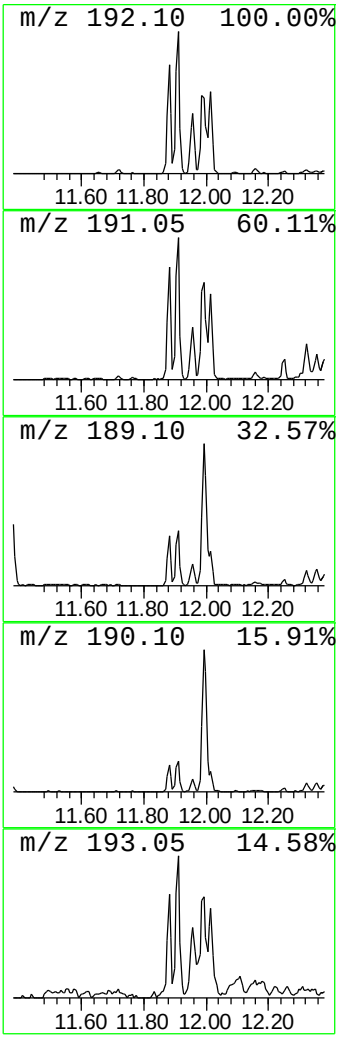
****

Peak Number 3 Phenanthrene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	9.06 ng	211078	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
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Acq On : 29 Aug 2019 3:18
Operator : HP/JU
Sample : K4093-03 5X
Misc :
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Instrument : BNA_F
ClientSampleId : PL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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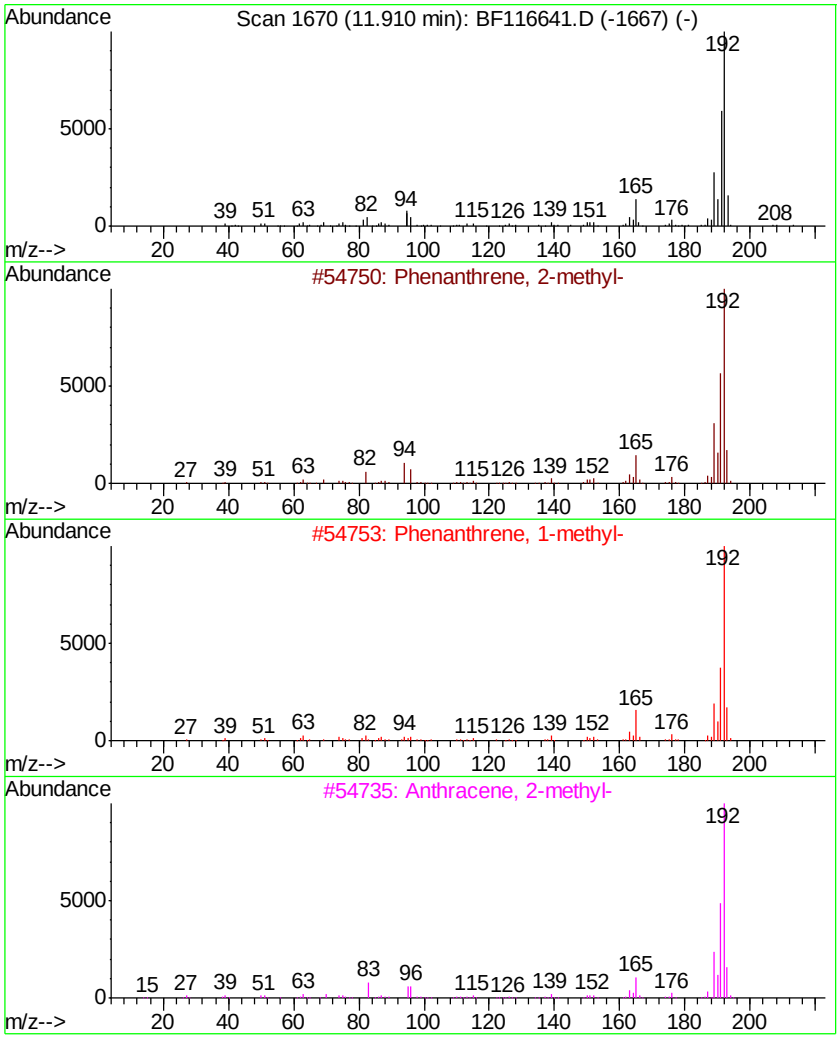
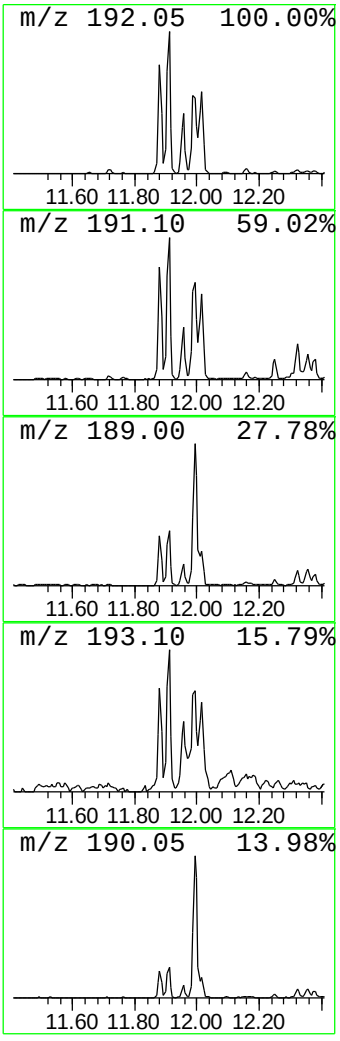
Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	12.38 ng	288496	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116641.D
Acq On : 29 Aug 2019 3:18
Operator : HP/JU
Sample : K4093-03 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

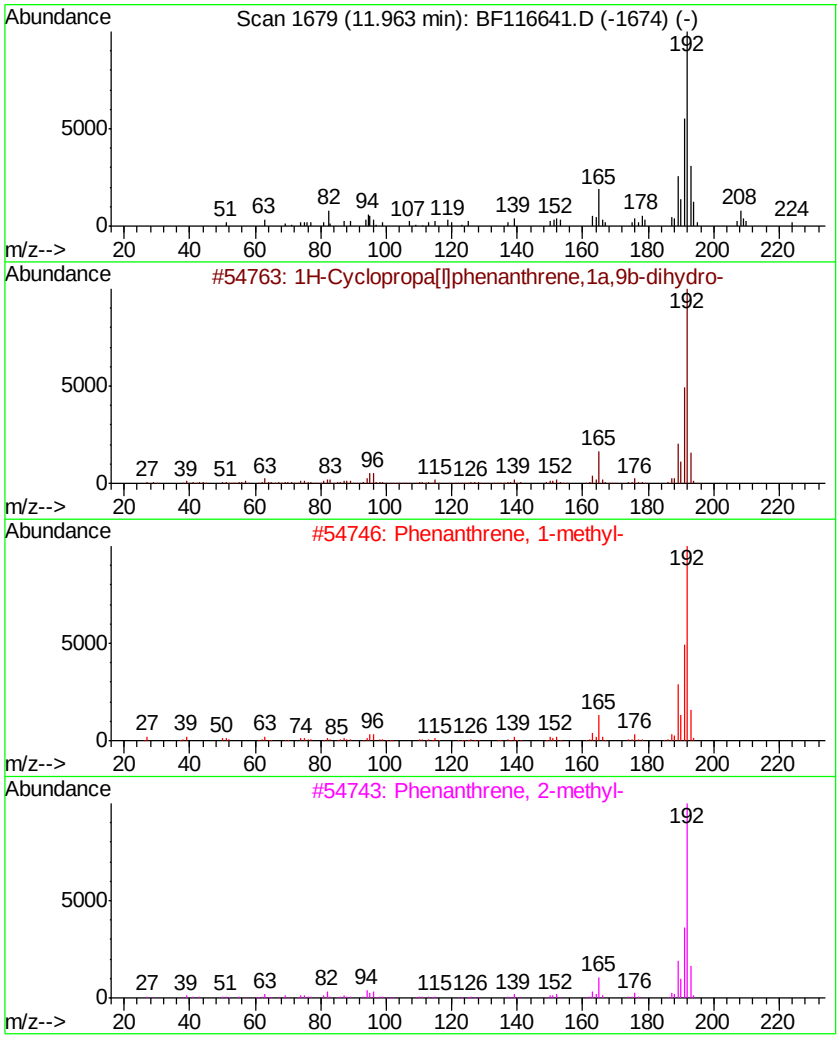
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

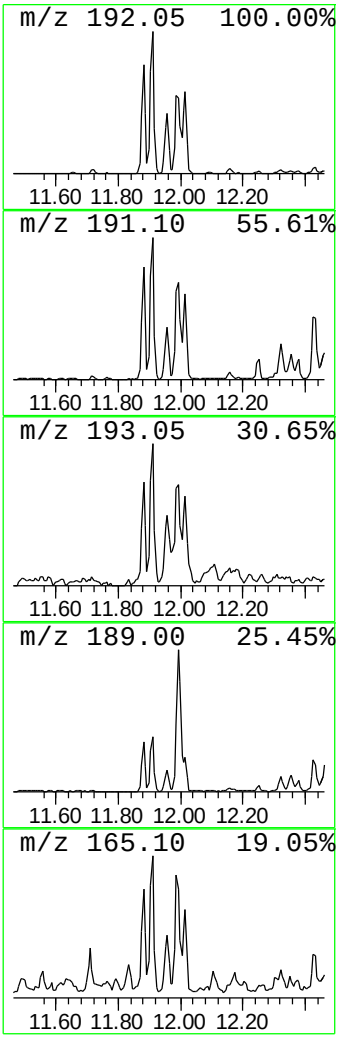
****

Peak Number 5 1H-Cyclopropa[l]phenanthren... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	5.39 ng	125578	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116641.D
Acq On : 29 Aug 2019 3:18
Operator : HP/JU
Sample : K4093-03 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

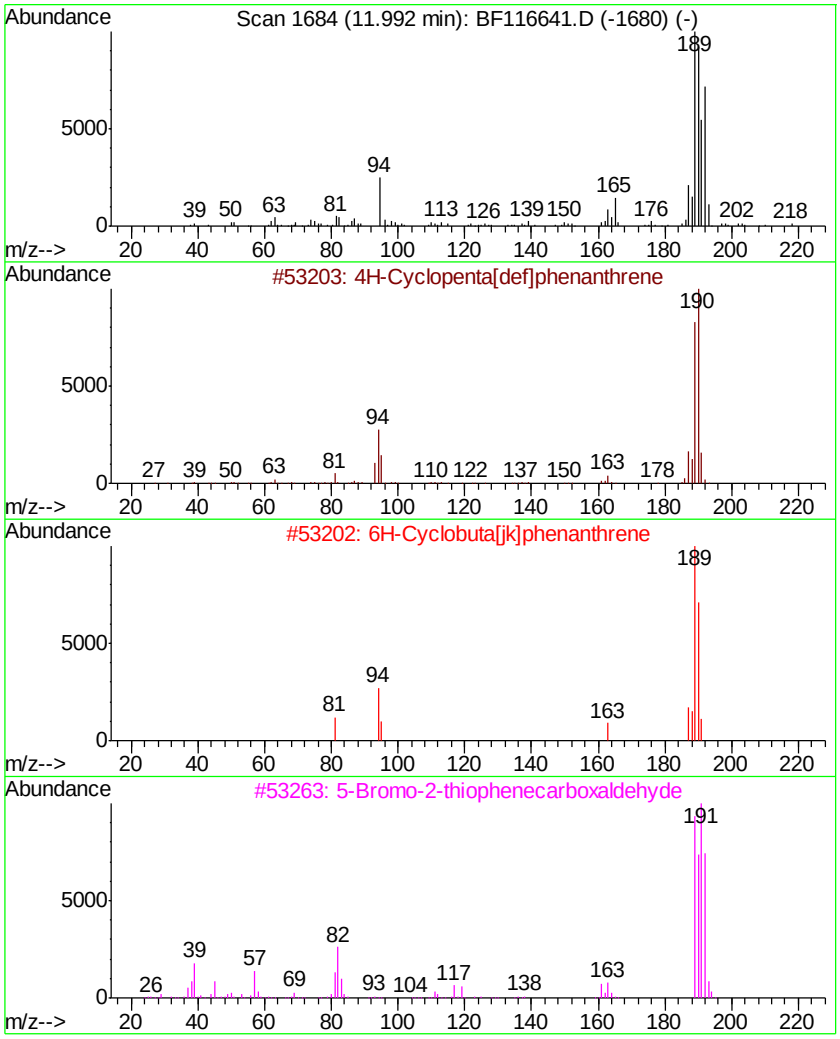
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

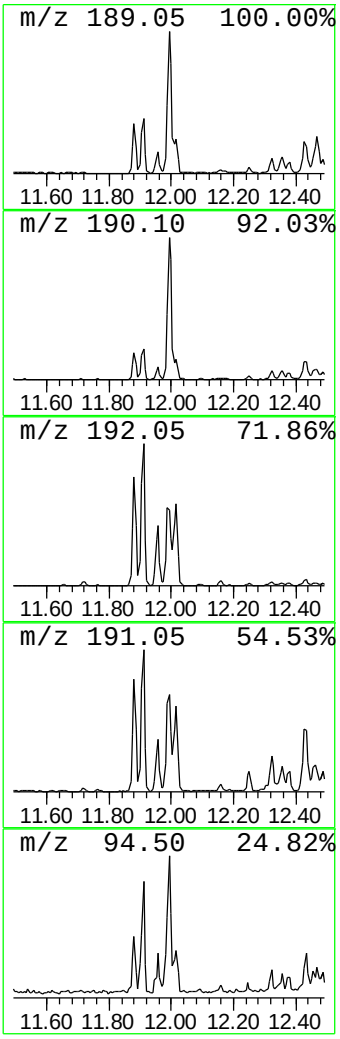
****

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	15.52 ng	361813	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	62
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	58
3	5-Bromo-2-thiophenecarboxaldehyde	190	C5H3BrOS	004701-17-1	50
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	35
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	30





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Operator : HP/JU
Sample : K4093-03 5X
Misc :
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Instrument : BNA_F
ClientSampleId : PL-02-082619

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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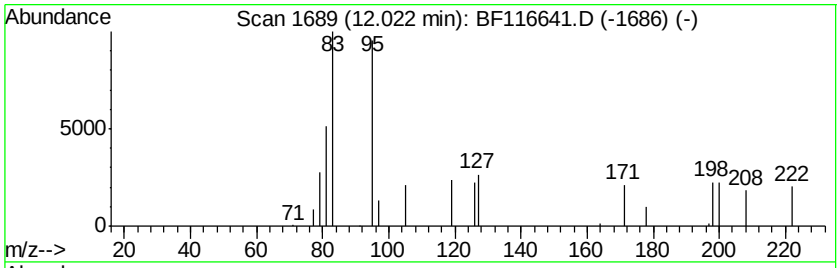
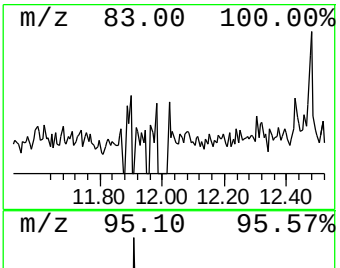
Peak Number 7 Anthracene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	6.42 ng	149570	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	91
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	91





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ClientSampleId : PL-02-082619

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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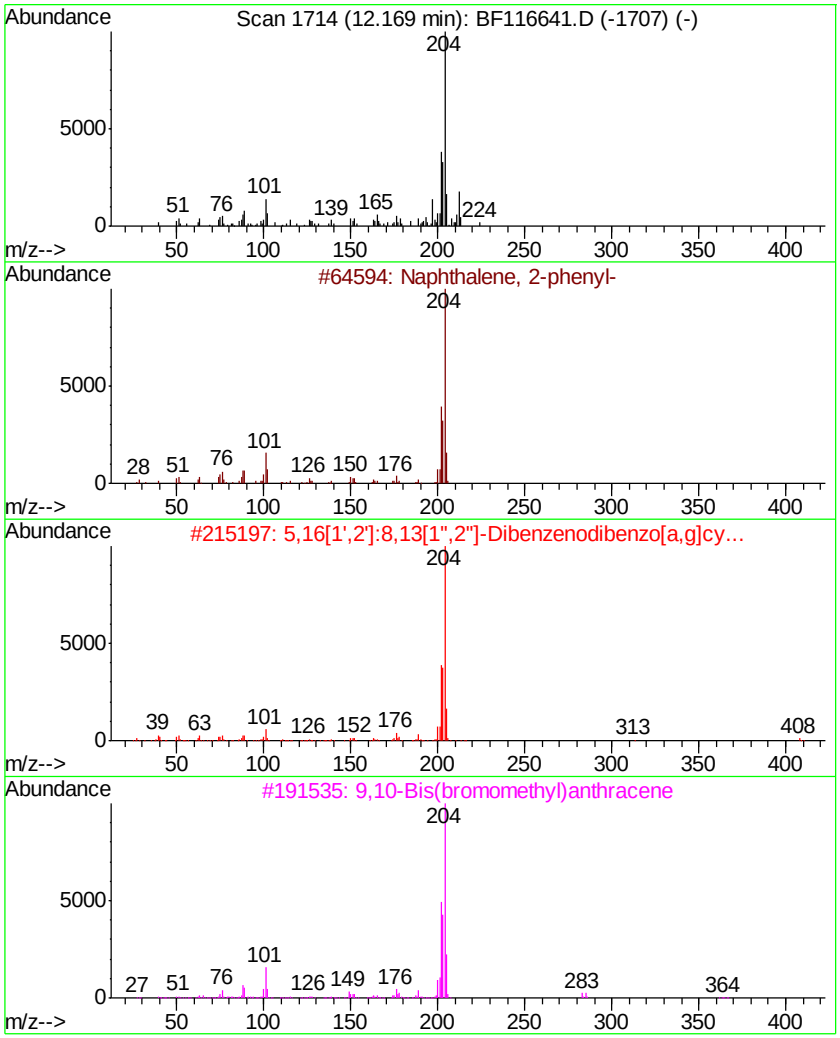
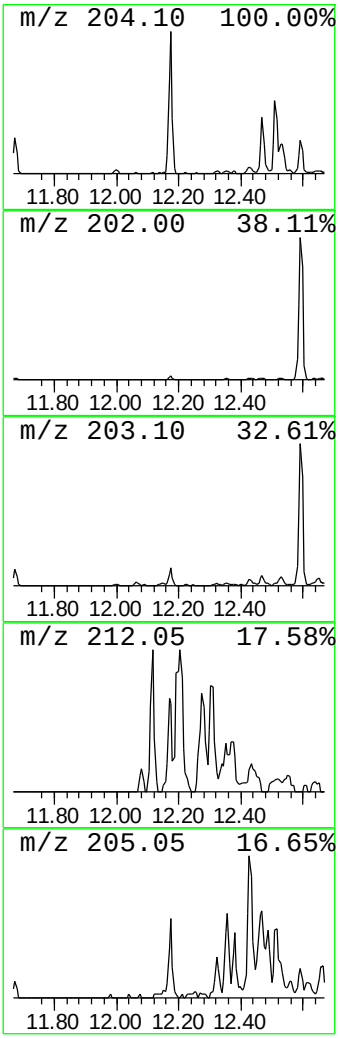
Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	6.70 ng	156258	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	92
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	64
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	49





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TIC Integration Parameters: LSCINT.P

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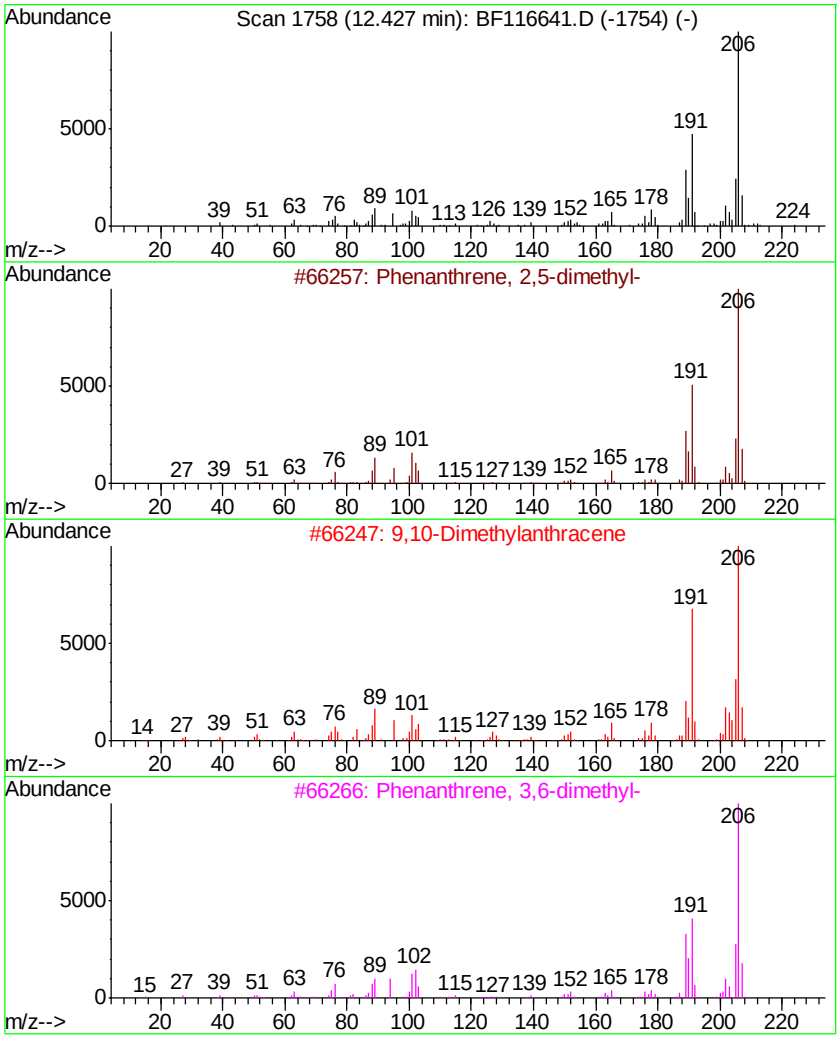
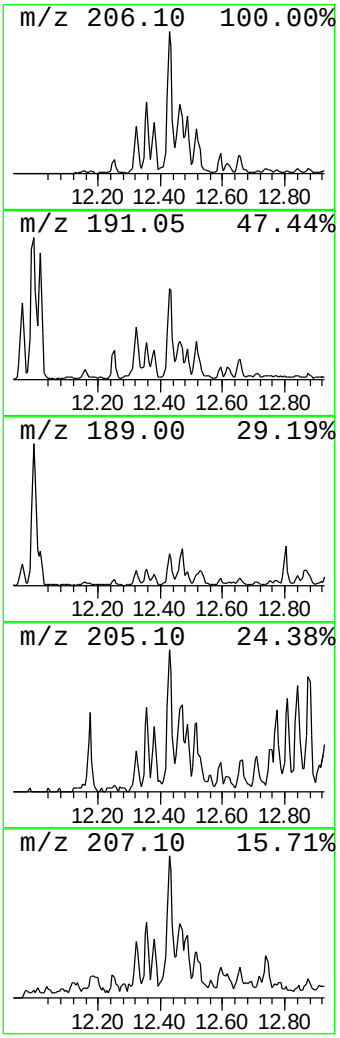
Peak Number 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	9.78 ng	227898	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90





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ClientSampleId : PL-02-082619

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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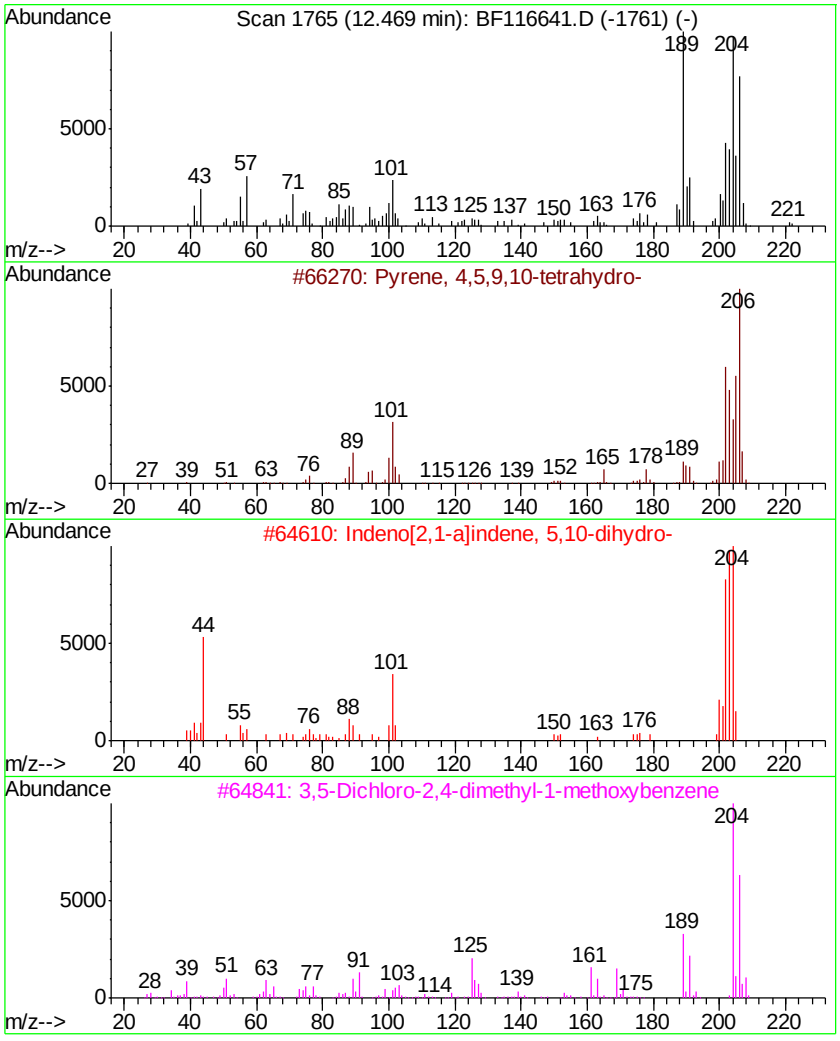
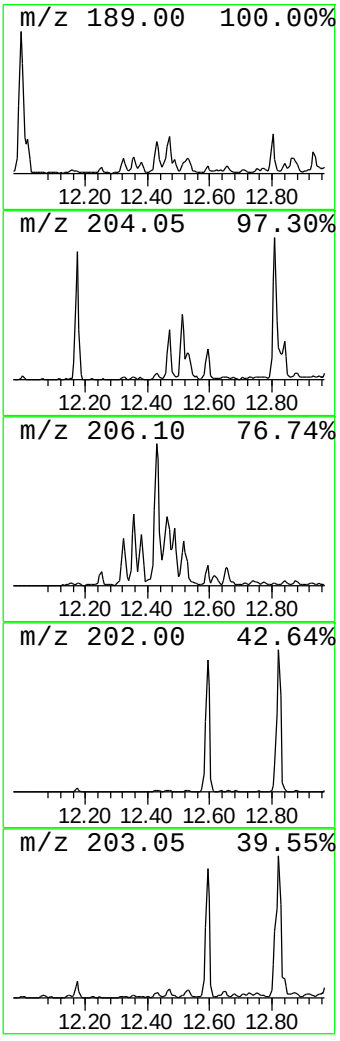
Peak Number 10 Pyrene, 4,5,9,10-tetrahydro- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	12.02 ng	280128	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	51
2	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	44
3	3,5-Dichloro-2,4-dimethyl-1-meth...	204	C9H10Cl2O	1000250-17-8	43
4	Quinoline, 8-methoxy-5-nitro-	204	C10H8N2O3	1000298-88-7	42
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	38





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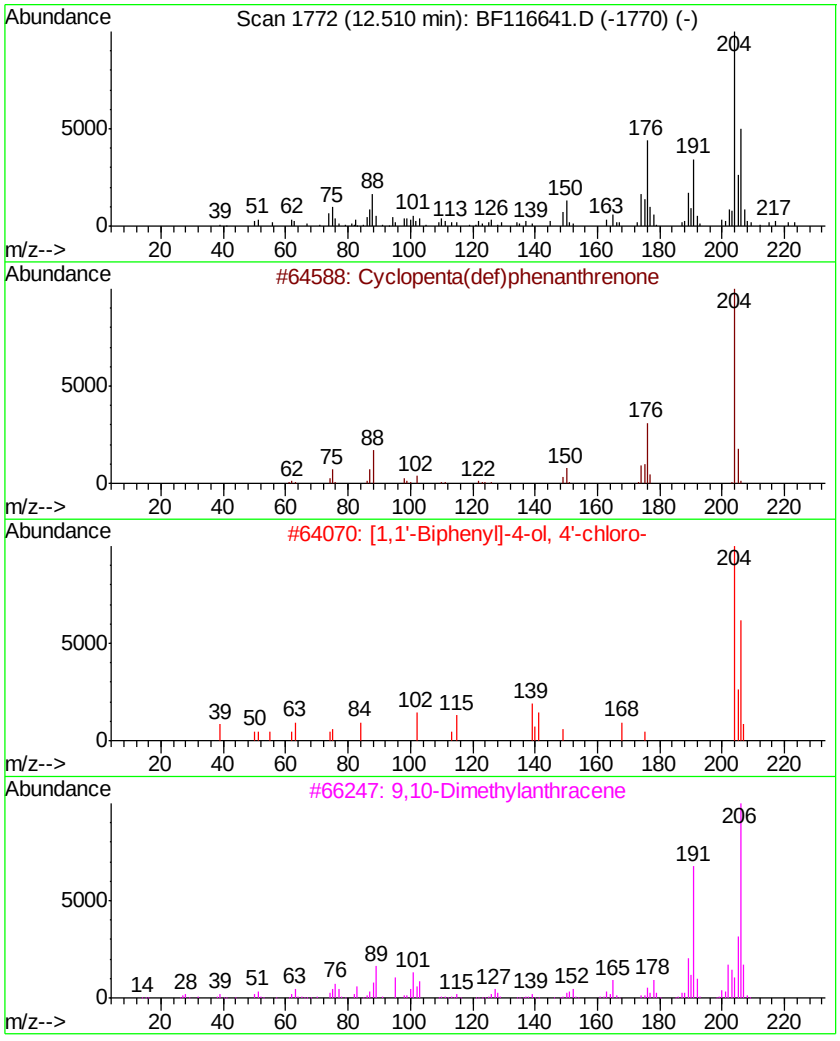
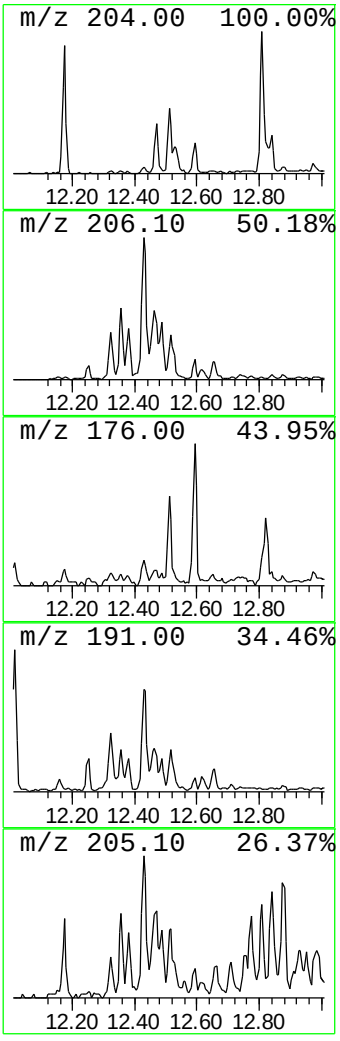
Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.51	6.18 ng	144121	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	64
2	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	49
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	42
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	41
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	38





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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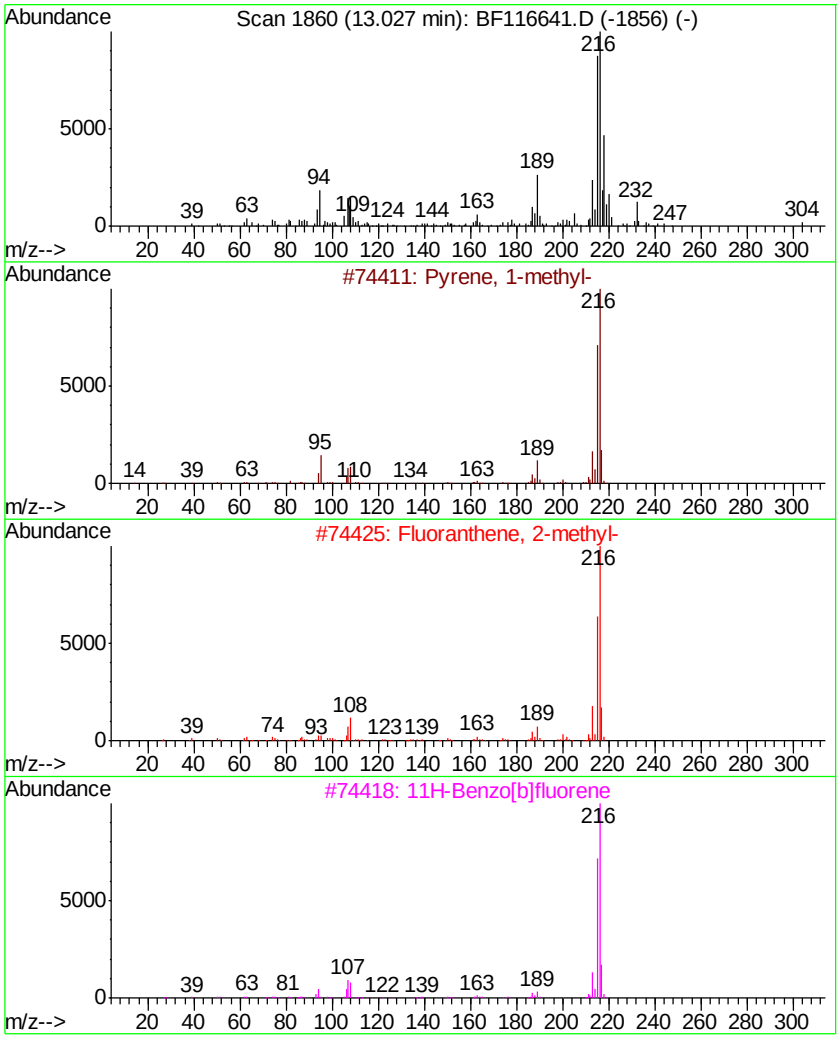
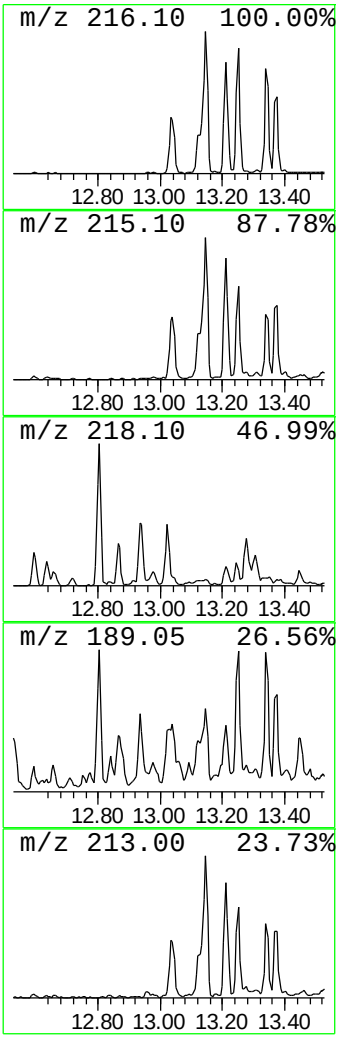
Peak Number 12 Pyrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.03	3.80 ng	339361	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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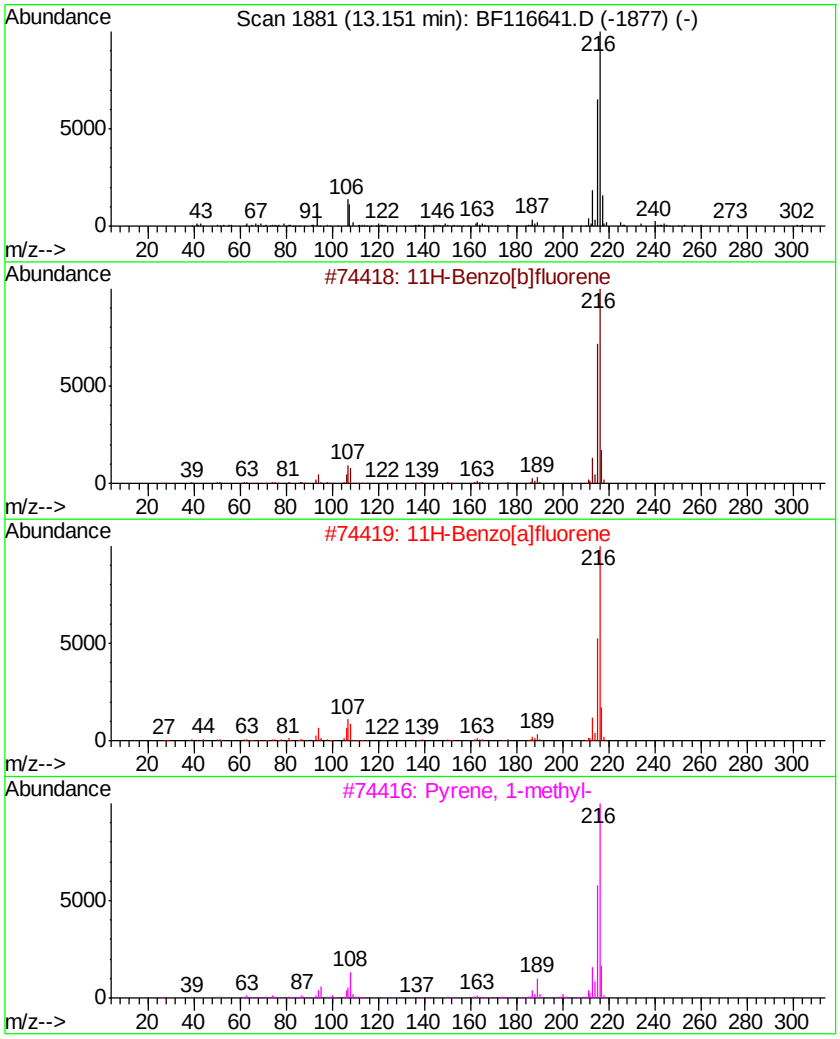
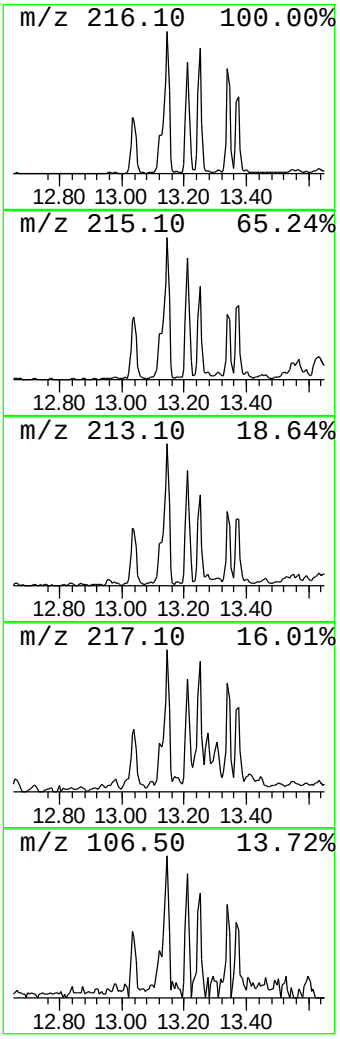
Peak Number 13 11H-Benzo[b]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	4.83 ng	432180	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81





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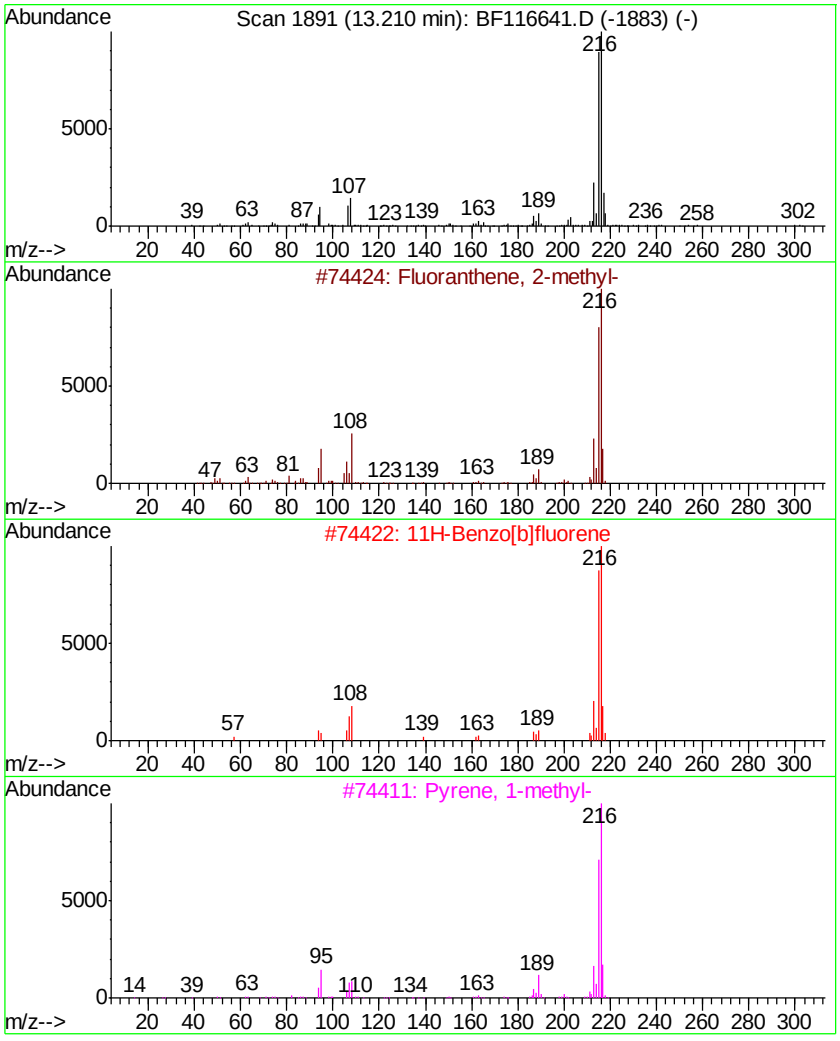
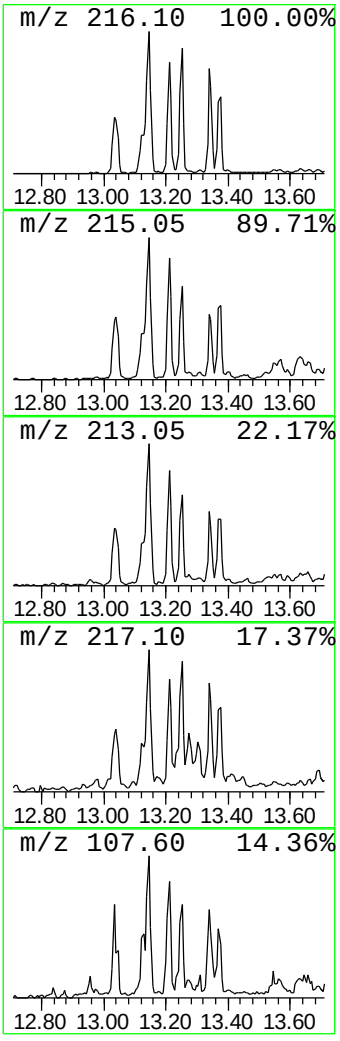
Peak Number 14 11H-Benzo[a]fluorene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.21	4.73 ng	422754	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	52





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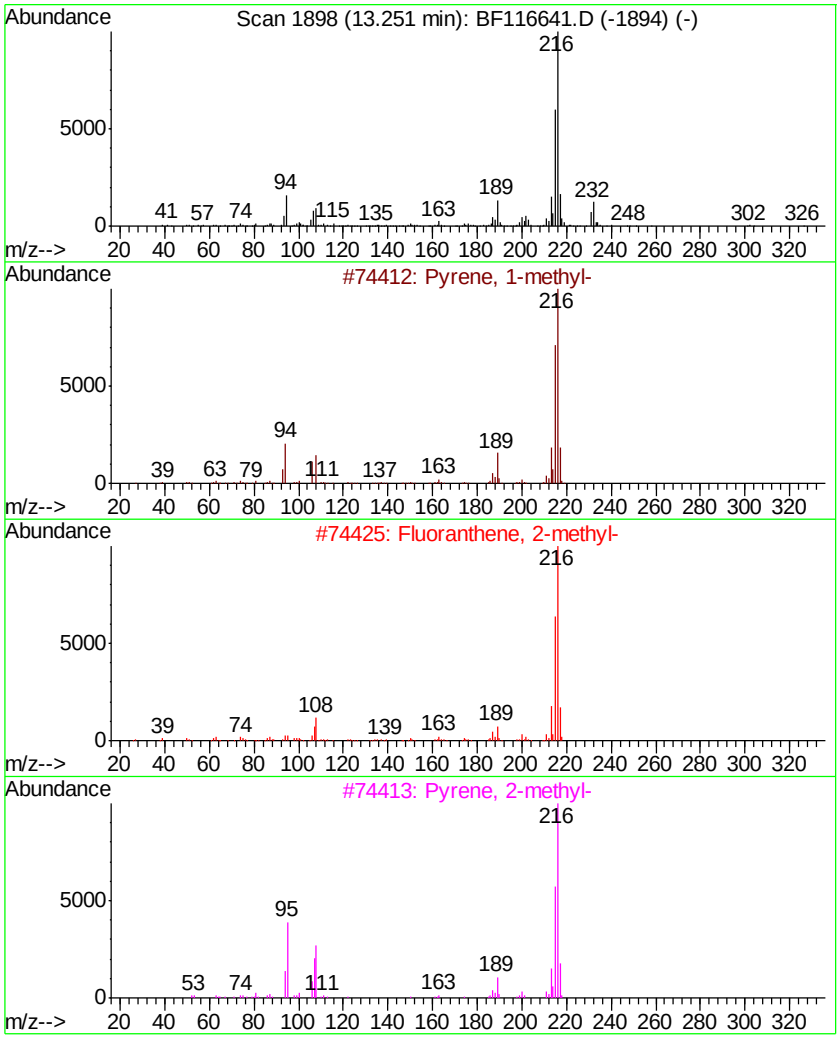
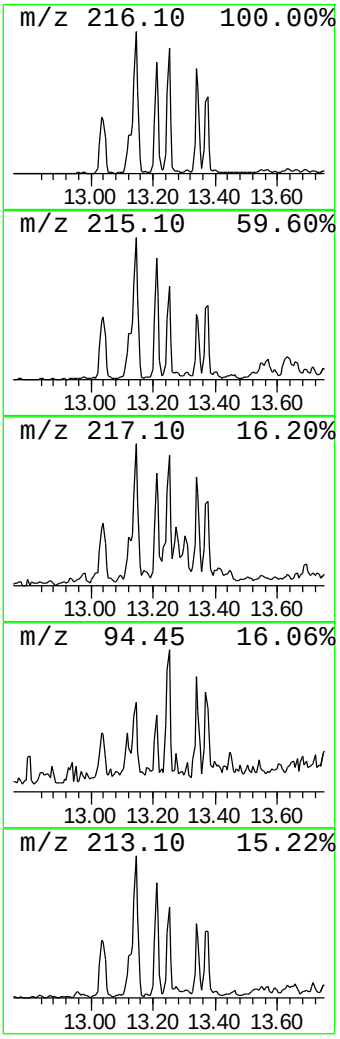
Peak Number 15 Pyrene, 4-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.25	5.12 ng	457953	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	93
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87





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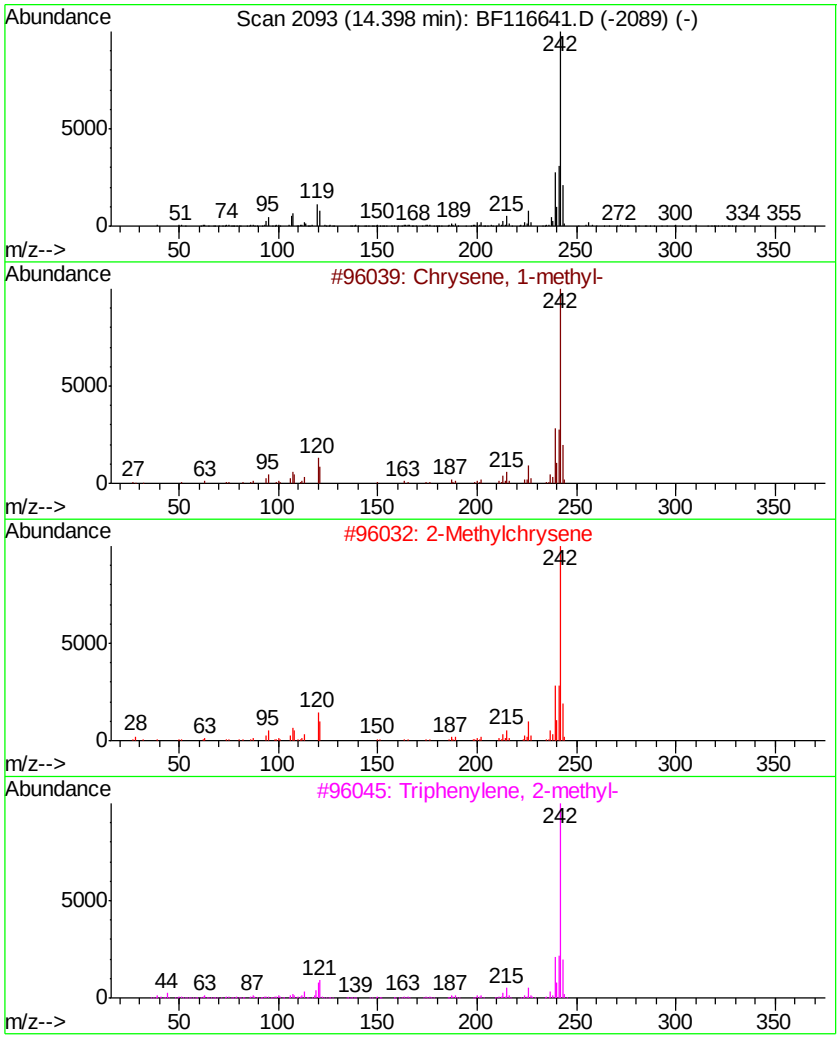
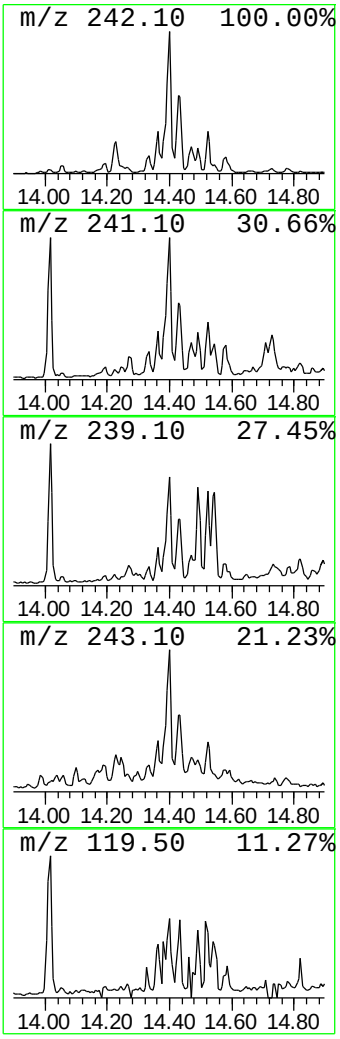
Peak Number 16 Chrysene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.40	3.87 ng	346355	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 1-methyl-	242	C19H14	003351-28-8	96
2	2-Methylchrysene	242	C19H14	003351-32-4	96
3	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	96
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	94
5	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	93





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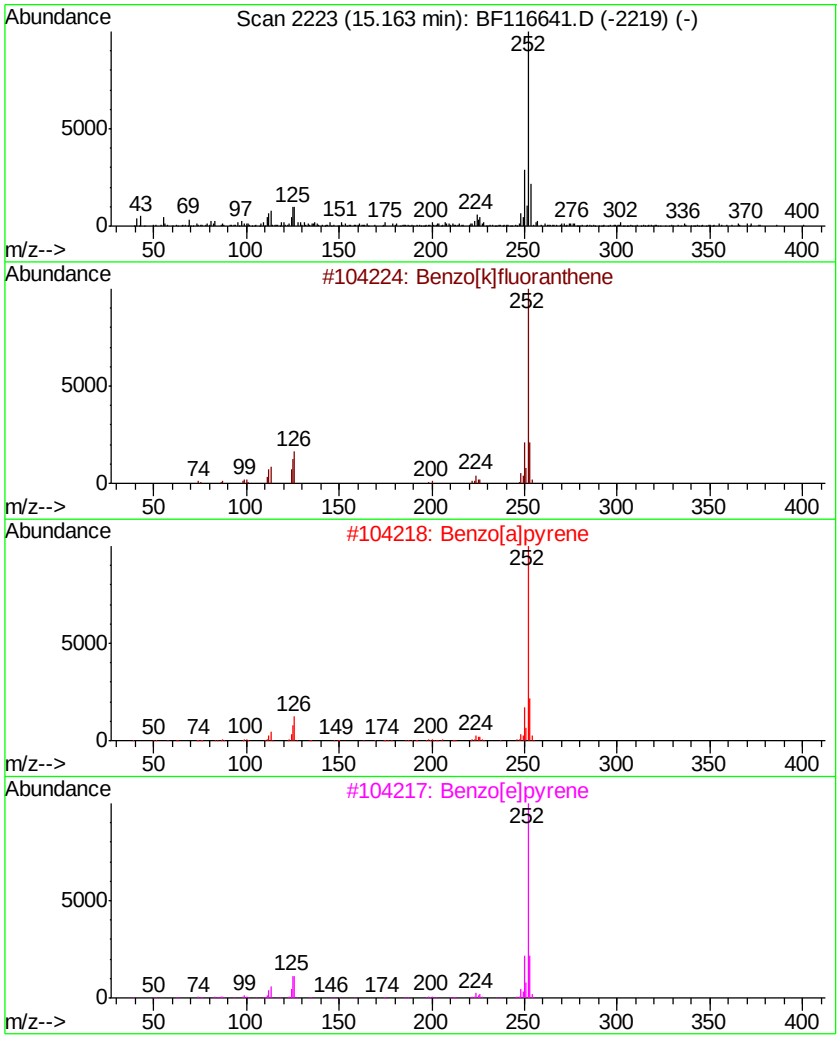
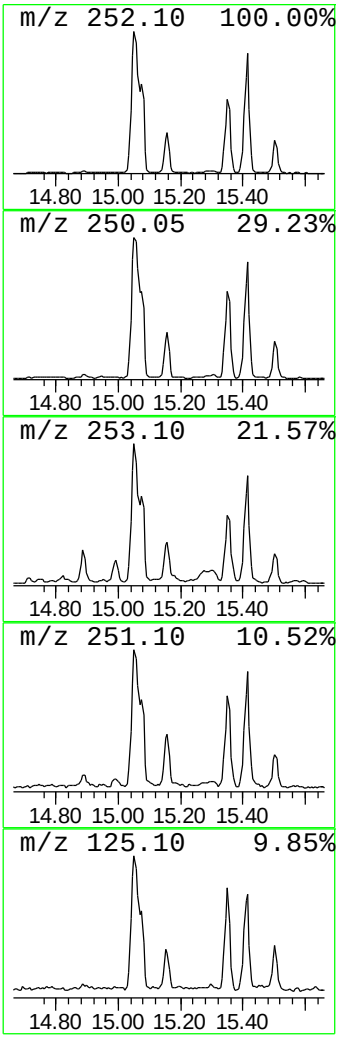
Peak Number 17 Benzo[e]pyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.16	8.18 ng	338053	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
2	Benzo[a]pyrene	252	C20H12	000050-32-8	91
3	Benzo[e]pyrene	252	C20H12	000192-97-2	91
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Perylene	252	C20H12	000198-55-0	81





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Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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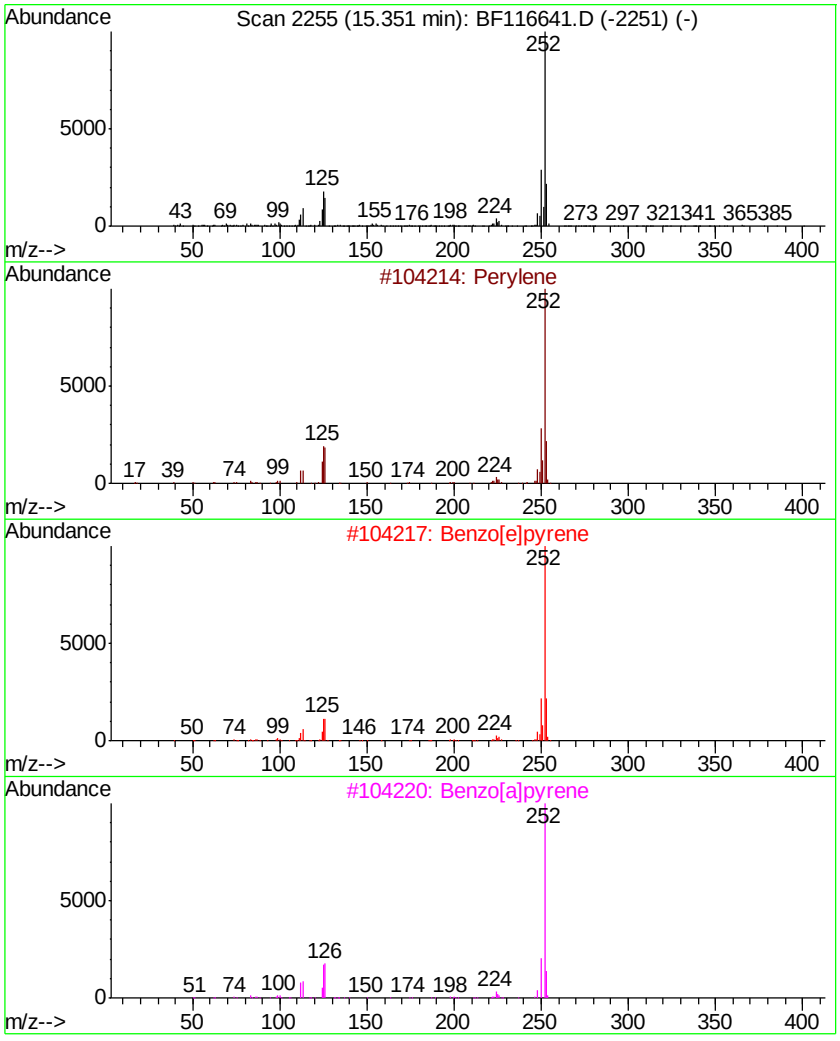
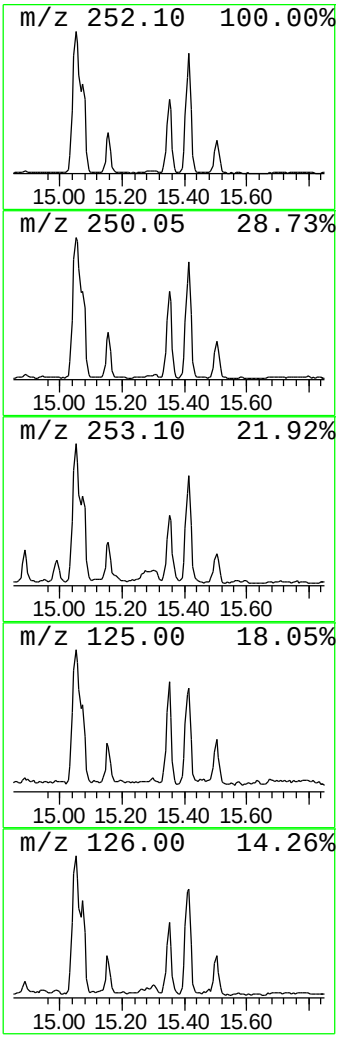
Peak Number 18 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.35	14.70 ng	607644	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	99
2	Benzo[e]pyrene	252	C20H12	000192-97-2	97
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	81





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116641.D
Acq On : 29 Aug 2019 3:18
Operator : HP/JU
Sample : K4093-03 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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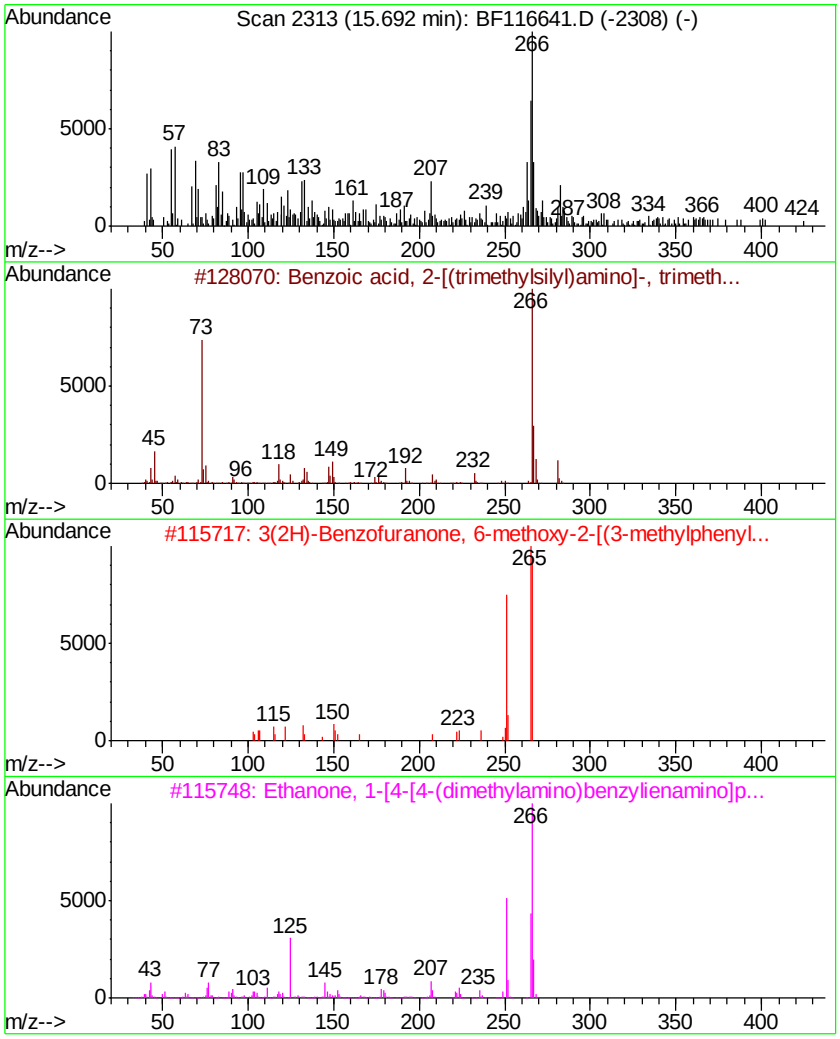
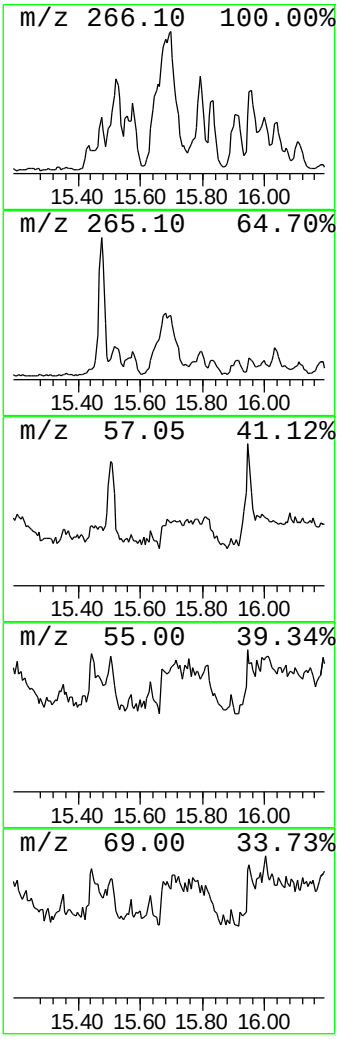
Peak Number 19 unknown15.69 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.69	9.36 ng	386867	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic acid, 2-[(trimethylsilyl...	281	C13H23NO2Si2	018406-07-0	48
2	3(2H)-Benzofuranone, 6-methoxy-2...	266	C17H14O3	077764-86-4	43
3	Ethanone, 1-[4-[4-(dimethylamino...	266	C17H18N2O	038131-68-9	42
4	3-(3-[Trifluoromethyl]phenoxy)be...	266	C14H9F3O2	078725-46-9	42
5	2-Amino-3-cyano-5-[2-[3,4-methyl...	266	C14H10N4O2	1000252-72-1	38





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\
Data File : BF116641.D
Acq On : 29 Aug 2019 3:18
Operator : HP/JU
Sample : K4093-03 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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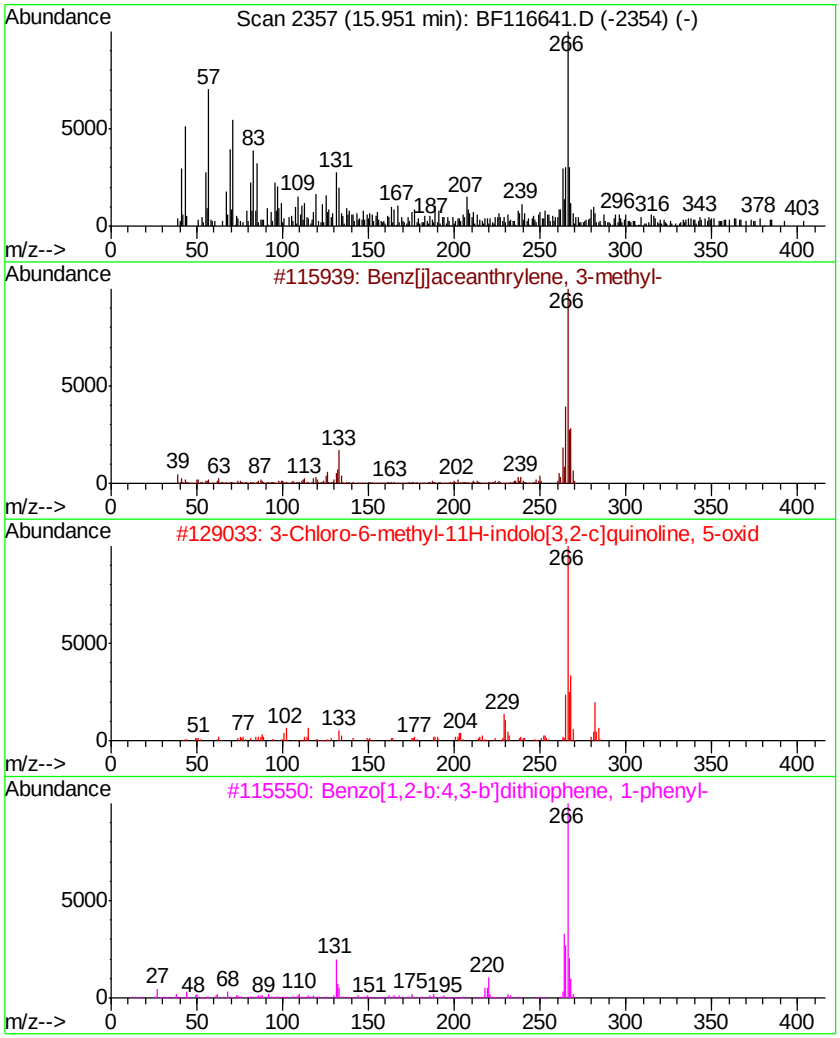
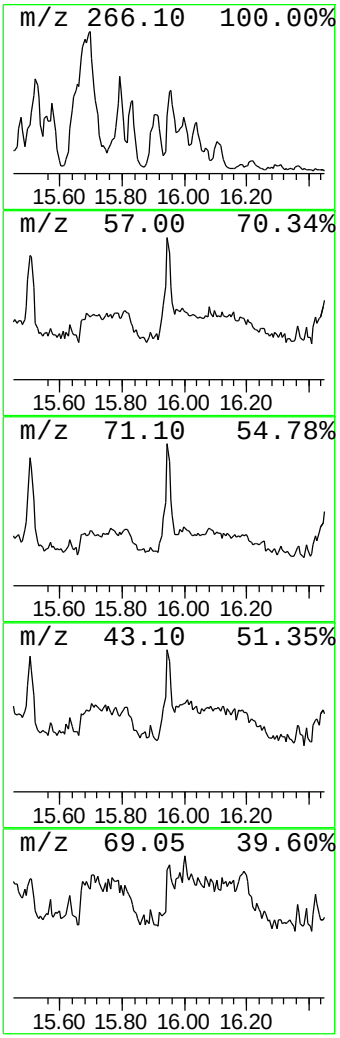
Peak Number 20 Benz[j]aceanthrylene, 3-met... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.95	10.56 ng	436713	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	78
2	3-Chloro-6-methyl-11H-indolo[3,2...	282	C16H11ClN2O	1000212-76-7	60
3	Benzo[1,2-b:4,3-b']dithiophene, ...	266	C16H10S2	016587-58-9	58
4	Silane, dimethyl(2-methylphenoxy...	266	C15H26O2Si	1000346-95-5	50
5	Benzoic acid, 2-[(trimethylsilyl...	281	C13H23NO2Si2	018406-07-0	49





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082819\
Data File : BF116641.D
Acq On : 29 Aug 2019 3:18
Operator : HP/JU
Sample : K4093-03 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-02-082619

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF082819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown6.63	6.63	18.8	ng	420004	1	6.86	448057	20.0
Phenanthrene, 1-m...	11.88	9.1	ng	211078	4	11.38	466212	20.0
Phenanthrene, 2-m...	11.91	12.4	ng	288496	4	11.38	466212	20.0
1H-Cyclopropa[l]p...	11.96	5.4	ng	125578	4	11.38	466212	20.0
4H-Cyclopenta[def...	11.99	15.5	ng	361813	4	11.38	466212	20.0
Anthracene, 2-met...	12.02	6.4	ng	149570	4	11.38	466212	20.0
Naphthalene, 2-ph...	12.17	6.7	ng	156258	4	11.38	466212	20.0
Phenanthrene, 2,5...	12.43	9.8	ng	227898	4	11.38	466212	20.0
Pyrene, 4,5,9,10-...	12.47	12.0	ng	280128	4	11.38	466212	20.0
Cyclopenta(def)ph...	12.51	6.2	ng	144121	4	11.38	466212	20.0
Pyrene, 1-methyl-	13.03	3.8	ng	339361	5	14.02	1787930	20.0
11H-Benzo[b]fluorene	13.15	4.8	ng	432180	5	14.02	1787930	20.0
11H-Benzo[a]fluorene	13.21	4.7	ng	422754	5	14.02	1787930	20.0
Pyrene, 4-methyl-	13.25	5.1	ng	457953	5	14.02	1787930	20.0
Chrysene, 1-methyl-	14.40	3.9	ng	346355	5	14.02	1787930	20.0
Benzo[e]pyrene	15.16	8.2	ng	338053	6	15.47	826743	20.0
Perylene	15.35	14.7	ng	607644	6	15.47	826743	20.0
unknown15.69	15.69	9.4	ng	386867	6	15.47	826743	20.0
Benz[j]aceanthryl...	15.95	10.6	ng	436713	6	15.47	826743	20.0